OFA EWG Meeting – 7/20/2015

Attendees

First	Last	Company	06/08/15	06/22/15	07/06/15	07/20/15
Pradeep	Kankipati	Avago	X	X	X	X
Eddie	Wai	Broadcom	X		X	
Steve	Wise	Chelsio	X		X	X
Pradeep	Satyanarayana	IBM	X			
Arlin	Davis	Intel	X		X	
Tom	Elken	Intel				X
Mike	Marciniszyn	Intel		X	X	
Tatyana	Nikolova	Intel	X	X	X	X
Jim	Ryan	Intel	X	X		X
Robert	Woodruff	Intel	X	X		X
Vladimir	Sokolovsky	Mellanox	X	X	X	X
Jeff	Becker	NASA		X		X
Rupert	Dance	Software Forge	X	X	X	X
Keith	Hoodlet	UNH-IOL			X	
Stefan	Oesterreich	UNH-IOL				X
Chuck	Valenza	UNH-IOL				X
Dave	Wyman	UNH-IOL	X			X

Agenda

Meeting Minutes 7/6/2015:

- https://www.openfabrics.org/downloads/WorkGroups/ewg/EWG_Minutes/2015-07-06-EWG-Meeting-Minutes.pdf

OFED 3.18 status

- **OFED 3.18 GA – released 7/14/2015**
    - https://www.openfabrics.org/downloads/OFED/ofed-3.18/OFED-3.18.tgz
- **OFED 3.18-1 -** Plans for the next build
    - RHEL 6.7
    - SLES 11 SP4
    - Bug fixes
    - Other?
- **OFED User Package Status as of 7/20/2015**
    - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_User_Package_Status/OFED-User-Package-Status-2015-07-20.pdf
- **OFED 3.18 Bug Status as of 7/20/2015**
    - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_Bugs/OFED-3.xx-Bug-Status-2015-07-20.pdf
- **OFED 3.18-1 open issues**
    - 2544 – infinipath-psm won't install with libfabric
    - 2545 - ipath compilation fails on SLES11 SP4 and RHEL6.7
    - 2547 – libibscif and xeon-phi issues
    - 2551 – libfabric compile issue on ppc64
    - 2553 - Unable to run UD traffic using qperf
    - 2555 - ib_send_bw –run_infinitely fails to terminate on the server after client disconnects
    - 2559 - unexpected CM event 8 error seen on running iwarp traffic after restart of iwpmd service
    - 2560 - OFED_tips.txt section 4 needs updating

Open Items

Request from Chuck Lever - IB verbs API in the Linux kernel

1) One item that has come up is that folks would like to remove ib_reg_phys_mr() for kernel consumers because it is obsolete. Are you aware of any out-of-tree kernel consumers who might still use this API?

2) Rupert asked that all EWG members check with their companies and respond back. Chuck has aksed that we respond directly to the linux-rdma reflector: linux-rdma@vger.kernel.org.

OFED 3.18 GA Testing Status

1) Dave from UNH-IOL has begun installing OFED 3.18 GA on the machines and has not had any troubles except with ppc64. Further investigation revealed that several dependencies (for example libudev-devel rpm) had to be resolved and OFED 3.18 now installs on pp664.

2) Right now the IB cluster is in use for research

3) Rupert said that Software Forge has installed OFED 3.18 on its server and has not experienced any issues.

Bug Status - OFED 3.18-1 open issues

- 2544 – infinipath-psm won't install with libfabric
  - **Woody**: Still internal review between Sean and PSM. Can libfabric installer handle it or do we do it on PSM.
- 2545 - ipath compilation fails on SLES11 SP4 and RHEL6.7
  - **Tom**: the fix for this should be straight forwarded
- 2547 – libibscif and Xeon-phi issues
  - **Woody**: They may decide not to fix this issue where the user ran ibutils and it reported wrong transport type. To solve this would require a patch in libibverbs. Now we use kernel version and don't want to deviate. It is reporting only and ULP code does not check because it all works.
- 2551 – libfabric compile issue on ppc64
  - **Rupert**: This issue is caused because it is checking for PSM. There is a conflict between the PSM code and libfabrics. Vlad has disabled automatic building of libfabric in OFED 3.18. It is available but must be compiled explicitly.
  - **Rupert**: Chuck from Oracle needs OpenVPN access to the ppc64 cluster to do some testing on an old NFSRDMA patch that needs to be reverted. Dave will work with him.
  - **Woody**: Needs to check with Sean and 1.0.2
- 2553 - Unable to run UD traffic using qperf
  - Assigned to Dean – **Tom** will follow up
- 2555 - ib_send_bw –run_infinitely fails to terminate on the server after client disconnects
  - Vlad – Gil is working on it
- 2559 - unexpected CM event 8 error seen on running iwarp traffic after restart of iwpmd service
  - **Tatyana**: Chelsio can reproduce and Tatyana cannot because she does not have the hardware.
  - **Steve**: Veeresh is trying to get a kernel trace. Steve has 2 systems with 3.18 and will work on double check. Veeresh sent user space trace and did not help. She wants kernel space. Steve says it is a QA test tool.
- 2560 - OFED_tips.txt section 4 needs updating
  - Vlad will update.

Other Issues – IPoIB failures during Interop Testing

1) Stefan at UNH-IOL has seen failures with ping sizes of 65507 or greater Failure occurs while running IPoIB part A (PingPong test in testplan) in connected mode on OFED version 3.18-rc3 upon sending a 65507 byte ping after removing the ARP entry for the IB interface on the sending node. Devices do not receive the echo reply of the first ping sequence when the payload size is 65493 or higher. He thinks this has to do with MTU path.

2) Rupert asked him to file a bug which he has done: Bug 2561

3) The test plan referenced is available here: https://www.iol.unh.edu/sites/default/files/test-services/ofa/testsuites/OFA-IWG_Interoperability_Test_Plan-v1.51-v5.pdf

OFED 3.18-1 Plans
Woody
1) There may be a new dapl coming – most Xeon Phi and scalability.

Vlad
1) Nothing new as far as we know. Maybe mstflint and perfest
2) He has already added support for RHEL 6.7 and SLES 11 SP4 – needs to be verified. In 3.18 GA
3) He will verify and make daily build as needed.

Woody-Rupert
1) Our goal is to release OFED 3.18-1 in one to two months
2) Industry may discover bugs with OFED 3.18 so we must give them time to test.

Next OFED Build after OFED 3.18-1
Woody – we need to decide if we can use 4.2 or if we should wait for 4.3 so we get all the new stuff. Here are some of the things he would like to include.
1) Omni Path – probably not ready until 4.3
2) RoCE-v2
3) NFSRDMA updates
4) FMR

Jeff
1) There are always things under discussion and things going on – he thinks we should move forward.and build OFED on 4.2 and not wait until there are new features in 4.3.

Steve
1) iWARP – Chelsio has a lot of stuff. He is good with 4.2 or later
2) 4.2 RC3 has been release
3) Most of the new stuff has been included.

Pradeep
1) He would like us to proceed with 4.2 as long as all RoCE-v2 is in there. Avago has been waiting for RoCE v2 for some time.

Open
1) Dave – OFED 3.18 will fail on the ppc64.
   a) Rupert – libfabric has been disabled by default so it should build. Make sure you check for any missing dependencies

Next Meeting: August 3rd 2015

All package maintainers
5/11/2015
1) Make sure we get release notes updated and each vendor should get updates in – done 7/14/2016 - Prior to the release of OFED 3.18 GA, Rupert sent out many requests and the response was weak. OFED 3.18 GA has been released so this item will be considered closed.

Chelsio – Steve Wise
9/15/2014
1) Send patch for Bug 2492 upstream to the perftest maintainer and ask them to check out and accept the patch – in process

Emulex

Intel –IB
7/6/2015
1) Arlin will follow up on MPSS and libibscif release notes – open 7/20/2015
2) Mike - review and update qib, ipath and others release notes that are part of the Intel packages - open 7/20/2015

Intel iWARP – Tatyana
7/6/2015
1) Update kernel patch submitted to Vlad – done 7/7/2015
2) Create release notes for libnes – done 7/13/2015

Mellanox - Vlad
7/6/2015
1) Vlad will follow up with Mellanox staff and get their release notes committed. – done 7/13/2015

NFSRDMA – Jeff

SFI – Rupert
6/22/2015
1) Ask Phil Cayton – Patrick McCormick to do a release notes for MPSS – sent request 7/5/2015

7/6/2015
1) Contact Doug Ledford about libibverbs – done 7/6/2015
2) Send out summary regarding the daily build required for the release of OFED 3.18 GA – done 7/6/2015

UNH-IOL
7/20/2015
1) Validate that OFED 3.18 will build on ppc64